

Serial no. 10/725,359  
60246-306; 10766**REMARKS**

Claims 1-4, 6, 9, 10, 13-17, 24 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Martin Sr. in view of Sullivan. The Examiner admits that Martin does not disclose two fans that blow air over a coil. The Examiner states that Sullivan teaches this feature, and it would be obvious to employ two fans in Martin. Applicant respectfully disagrees.

The claimed invention is not obvious. Martin discloses a system 350 including a blower 354 that blows air over a coil 355. Martin discloses that a problem with prior art systems is that they are inefficient because air hits the interior of a plenum box, changes direction, and exits the plenum box, often after multiple encounters with the interior of the plenum box. A disclosed benefit of Martin is moving air efficiently in the plenum box without encountering the plenum box. The fans 15 of Sullivan cause the air to change direction in a housing 11 before moving through the coil 12. As shown in the figures, the air flow path in Sullivan is not straight and would therefore encounter the housing 11. Thus, introducing the multiple fans of Sullivan would cause the air to change direction in Martin, affecting the efficiency of the air flow and ruining a disclosed benefit of Martin. That is, if the fans 15 of Sullivan were employed in Martin, the air would contact the plenum box, which is a result Martin expressly teaches against. The claimed invention is not obvious.

The claimed invention is also not obvious because there is not enough room to employ more than one fan in Martin. Martin discloses a system 350 that moves air across the coil 355 using the blower 354 of a gas or electric furnace (column 2, lines 54-56). The space allotted for the installation of the system 350 is often limited (column 1, lines 36-38). Enlarging the space is often complicated and may require the removal of existing walls or ceilings, among other alterations (column 1, lines 43-46). In Sullivan, the rotating fans 15 are housed in fan housings 16 and driven by one motor 14 located outside the fan housings 16. Because the fans 15 of Sullivan are driven by a motor 14 located outside of the fan housings 16 and in line with the both of the fans 15, the fans 15 require more space than the blower of a gas or electric furnace. A disclosed benefit of Martin is a coil having an expanded face that utilizes minimal installation space. Expanding the face of the coil increases the efficiency of the air conditioning system. Incorporating an additional fan would require more space in the housing 14 of Martin. Also, using the fans 15 of Sullivan in Martin would increase the size of the housing 14 in Martin.

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Therefore, it would not be obvious to employ the fans of Sullivan in Martin. The claimed invention is not obvious, and applicant respectfully requests that the rejection be withdrawn.

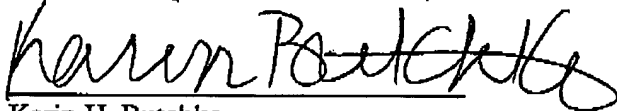
Claims 20 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Martin and Sullivan as applied to claims 1 and 6 above, and further in view of Ikeya or Nagakura. Claims 20 and 21 depend from independent claims 1 and 6, respectively, and are allowable for the reasons set forth above. Adding the plurality of tubes that are aligned vertically and staggered horizontally of Ikeya or Nagakura would not render the claims obvious because it would not be obvious to employ two fans in Martin. The claimed invention is not obvious.

Claims 22 and 23 are rejected under 35 U.S.C. (a) as being unpatentable over Martin and Sullivan as applied to claims 1 and 6 above, and further in view of Vandervaat (US 5,189,887). Claims 22 and 23 depend from independent claims 1 and 6, respectively and are allowable for the reasons set forth above. Adding the aluminum fins of Vandervaat would not render the claims obvious because it would not be obvious to employ two fans in Martin. The claimed invention is not obvious.

All objections and rejections having been addressed, it is respectfully submitted that the present application is in condition for allowance, and a Notice to that effect is earnestly solicited. Applicant believes that no additional fees are necessary, however, the Commissioner is authorized to charge Deposit Account No. 50-1482 in the name of Carlson, Gaskey & Olds for any additional fees or credit the account for any overpayment.

Respectfully Submitted,

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